ELSEVIER

Thin Solid Films 311 (1997) 323–324

thin solid films

Author Index of Volume 311

Abermann, R. 310
Abrutis, A. 251
Almeida, S.A. 133
Alnot, M. 44
Anders, A. 151
Asahi, T. 277
Aspar, B. 225

Babu, S.V. 177
Backhouse, C.J. 299
Bardosova, M. 23
Ben-Nissan, B. 196
Bhosale, C.H. 114
Bhushan, B. 67
Bigelytė, V. 251
Brett, C.M.A. 1
Brett, M.J. 299
Brunel, M. 15
Burdis, M.S. 286
Butkutė, R. 251
Butler, R.S. 107

Campbell, D.R. 177
Carrillo-López, J. 38
Cheng, L.H. 138
Cheng Chang, C. 304
Chevallier, J. 119
Choi, D.-J. 218
Chong, T.C. 7
Chu, P.K. 190
Clarke, I. 23
Craciun, F. 171

D'Anna, E. 15
Dew, S.K. 299
Diesner, K. 146
Dinescu, M. 171
Du, A.Y. 7
Dubowik, J. 246

Ehrhardt, J.-J. 44
Ennaoui, A. 146
Este, G. 299

Fang, R. 124
Fernández-Valverde, S.M. 164
Fiechter, S. 146
Fordham, E.J. 107
Fusy, J. 44

Galakhov, V.R. 28
Galindo, V. 251
Galkin, N.G. 230
Gan, R.-j. 33
Gancedo, J.R. 51
Ganchev, M. 101
Garnier, F. 317
Gautier, J.L. 51
Ge, S.-h. 33
Génin, J.-M. 44
Goullet, A. 212
Gracia, M. 51
Granier, A. 212
Gu, C. 124

Hamaguchi, M. 277
Hioki, T. 81
Hodge, P. 23
Horowitz, G. 317

Imamura, T. 277
Iriyama, K. 262
Itaya, A. 277
Ivanova, K. 101
Ivaska, A. 58

Jergel, M. 15
Jikei, M. 272
Jiménez, J. 225
Jin, Z. 124
Jukna, A. 251
Jung, C. 272

Kakimoto, M.-a. 272
Kasko, I. 28
Khabelashvili, I. 119
Kim, K.-H. 218
Kim, M.T. 157
Kim, S. 218
Kochev, K. 101
Koh, S.-K. 218
Komolov, A. 259
Konchenko, A.V. 230
Kubilius, V. 251
Kucherenko, A.Yu. 246
Kudryavtsev, Yu.V. 246
Kühn, M. 151
Kunisawa, T. 267
Kuramori, M. 262
Kurmaev, E.Z. 28
Kvarnström, C. 58

Lang, P. 317
Lee, W.-J. 183
Lettington, A.H. 107
Lévy, F. 146
Li, C.-x. 33
Li, F.M. 62
Li, M.F. 7
Li, X. 67
Lin, Q.Z. 190
Lin, S.H. 138
Ling, Y. 128
Liu, B.X. 89
Lokhande, C.D. 114
Lotz, B. 317
Lu, X. 124
Lu, Y.-y. 33
Luby, S. 15
Luches, A. 15
Luo, J. 89
Luo, Q. 177

Majkova, E. 15
Mania, R. 93
Marco, J.F. 51
Margail, J. 225
Martín, E. 225
Martino, M. 15
Maslov, A.M. 230
Masuhara, H. 277
McCulloch, D.G. 196
Meyer, S. 317
Miyasaka, H. 277
Monakhov, V. 259
Morales-Acevedo, A. 38
Morante, J.R. 225
Moser, J.H. 146
Motohiro, T. 81
Murakami, H. 239

Nemoshkalenko, V.V. 246
Nimigean, C.-M. 1
Nishimura, Y. 239
Noda, S. 81

Ohta, N. 239
Oishi, Y. 262
Ordoñez-Regil, E. 164
Östergård, T. 58
Ozaki, Y. 262

Pan, F. 89
Paterson, M.J. 196
Paterson, P.J.K. 196
Pérez-Rodríguez, A. 225
Peter, S. 151
Pintaske, R. 151
Popova, G.V. 267
Poppeller, M. 310
Pyun, S.-I. 183

Rajpure, K.Y. 114
Ramírez-Raya, S. 164
Ramos, R.T. 107
Rekas, M. 93
Ren, W. 128
Richter, F. 151
Rios, E. 51
Rivera-Noriega, R. 164
Ruby, C. 44

Sandu, V. 171
Sanz, L.F. 225
Sato, H. 262
Sato, T. 267
Satoh, T. 81
Schaumburg, K. 259
Sénateur, J.P. 251
Senderak, R. 15
Seo, Y. 272
Shamin, S.N. 28
Shiao, M.H. 138
Shieu, F.S. 138
Shikama, T. 207
Silva, S.R.P. 133
Sit, J.C. 299
Solorza-Feria, O. 164
Song, Z.M. 62
Spaeth, C. 151
Spasova, M. 15
Stobiecki, F. 246
Stratieva, N. 101
Straupé, C. 317
Stubb, H. 58
Suehiro, K. 262
Suzaki, Y. 207

Takeda, Y. 81
Tang, B.Y. 190
Tao, K. 89
Tarniowy, A. 93
Teišerskis, A. 251
Theunissen, G.S.A.M. 67
Tian, X.B. 190
Tomov, I. 101

Elsevier Science S.A.

Tredgold, R.H. 23
Tsuboi, Y. 277
Tzvetkova, E. 101

Uehara, K. 262
Umeuchi, S. 239

Vallée, C. 212
Vengalis, B. 251
Verardi, P. 171

Wang, S.Y. 190
Wang, X.F. 190
Waterman, D.R. 107
Weiss, F. 251
Wittmann, J.C. 317
Wu, C.Z. 62
Wu, J.D. 62
Wu, X.-q. 128

Xu, S.J. 7

Yamashita, M. 239
Yamazaki, I. 239
Yang, T.-H. 183
Yao, X. 128
Yasutake, K. 207
Yonezawa, Y. 267
Yoon, K.-R. 218
Yoshii, K. 207
Yoshioka, S. 207
Yu, D.P. 7

Zenkevitch, A. 119
Zhang, J. 124
Zhang, L.-y. 128
Zhang, Z. 7
Zhang, Z.-z. 33
Zou, G. 124

ELSEVIER

Thin Solid Films 311 (1997) 325–329

thin solid films

Subject Index of Volume 311

Ammonia
Chemical–mechanical polishing of copper in alkaline media, 177
Amorphous Fe
Magneto–optical studies of Fe/Zr wedge-shaped multilayer, 246
Amorphous materials
The effect of thermal treatment on the structure, optical and electrical properties of amorphous titanium nitride thin films, 93
Stoichiometric limitations of RF plasma deposited amorphous silicon–nitrogen alloys, 133
Kinetic studies of molecular oxygen reduction on $W_{0.013}Ru_{1.27}Se$ thin films chemically synthesized, 164
Concentration and thermal release of hydrogen in amorphous silicon carbide films prepared by rf sputtering, 207
Anisotrophy
In-plane anisotropy of nano-particle-doped glasses fabricated by multi-source simultaneous oblique-deposition, 81
Annealing
Influence of annealing condition on giant magnetoresistance of FeCo–Cu granular films, 33
Concentration and thermal release of hydrogen in amorphous silicon carbide films prepared by rf sputtering, 207
Effect of annealing on $PbTiO_3$ thin-film quality improvement, 304
Atomic force microscopy
Preparation and surface observation by scanning probe microscope of C_{60}-containing polyimide Langmuir–Blodgett film, 272
Atomic force microscopy (AFM)
Vacuum-deposited films of liquid crystal molecule of 4-dodecyloxy-4′-cyanobiphenyl: Their electronic spectra and molecular aggregate structures, 277

Band structure
Optical and photospectral properties of $CrSi_2$ A-type epitaxial films on Si(111), 230
Buried layers
Application of high energy resolved X-ray emission spectroscopy for monitoring of silicide formation in $Co/SiO_2/Si$ system, 28

Carbon
The effect of additional ion/plasma assistance in CN_x-film deposition based on a filtered cathodic arc, 151
Catalysis
Kinetic studies of molecular oxygen reduction on $W_{0.013}Ru_{1.27}Se$ thin films chemically synthesized, 164
Chalcogens
Preparation and structure of annealed $CuInSe_2$ electrodeposited films, 101
Chemical Vapor Deposition
Characteristics of chemical-vapor-deposited copper on the Cu-seeded TiN substrates, 218
Chemical vapour deposition (CVD)
The deposition of diamond film with high thermal conductivity, 124
Chlorophyll *a*
Structural and morphological studies on Langmuir-Blodgett films of pheophytine *a* by ultraviolet–visible and infrared spectroscopies and atomic force microscopy, 262
Chromium oxide coatings
Tribological studies of chromium oxide films for magnetic recording applications, 67
Coatings
Production and wetting properties of fluorinated diamond-like carbon coatings, 107
Cobalt oxide
Characterisation by X-ray photoelectron spectroscopy of thin $Mn_xCo_{3-x}O_4 (1 \geq x \geq 0)$ spinel films prepared by low-temperature spray pyrolysis, 51
Conductivity
Preparation and properties of conductive $LaNiO_3$ thin films by a thermal decomposition of water-based solutions, 128
Copper
Chemical–mechanical polishing of copper in alkaline media, 177
Characteristics of chemical-vapor-deposited copper on the Cu-seeded TiN substrates, 218
Corrosion
Corrosion of sputtered W–Ni–N hard coatings in chloride media, 1
Cu(111)
Structural properties and water adsorption behaviour of iron films grown on Cu(111), 44

Deposition
Production and wetting properties of fluorinated diamond-like carbon coatings, 107
Deposition process
Effect of the substrate temperature on the properties of spray deposited Sb–Se thin films from non-aqueous medium, 114
Preparation and properties of conductive $LaNiO_3$ thin films by a thermal decomposition of water-based solutions, 128
Deposition behavior of hexamethydisiloxane films based on the FTIR analysis of Si–O–Si and Si–CH_3 bonds, 157
Vacuum-deposited films of liquid crystal molecule of 4-dodecyloxy-4′-cyanobiphenyl: Their electronic spectra and molecular aggregate structures, 277
Diamond
The deposition of diamond film with high thermal conductivity, 124
Diamond-like Carbon
Production and wetting properties of fluorinated diamond-like carbon coatings, 107
Diffusion
Hydrogen diffusion through palladium–gold alloy coatings electrodeposited on palladium substrate under permeable boundary condition, 183
Dislocations
Investigation of dislocations and traps in MBE grown *p*-InGaAs/GaAs heterostructures, 7
Double-periodicity
Observations of an unusual modulated structure with double-periodicity in Fe–Al multilayers, 89

Elsevier Science S.A.

Electrical properties and measurements
The effect of thermal treatment on the structure, optical and electrical properties of amorphous titanium nitride thin films, 93
Preparation and properties of conductive $LaNiO_3$ thin films by a thermal decomposition of water-based solutions, 128
Electrochemical polymerization
Electrochemically prepared light-emitting diodes of poly(*para*-phenylene), 58
Electrochemistry
Electrochemically prepared light-emitting diodes of poly(*para*-phenylene), 58
Kinetic studies of molecular oxygen reduction on $W_{0.013}Ru_{1.27}Se$ thin films chemically synthesized, 164
Properties of sputtered thin films of vanadium–titanium oxide for use in electrochromic windows, 286
Electroluminescence
Electrochemically prepared light-emitting diodes of poly(*para*-phenylene), 58
Electronic devices
Electrochemically prepared light-emitting diodes of poly(*para*-phenylene), 58
Ellipsometry
Direct observation of water incorporation in PECVD SiO_2 films by UV-Visible ellipsometry, 212
Epitaxy
Nucleation and growth of pulsed laser deposited gold on sodium chloride (100), 119
MgO by Injection CVD, 251
Excimer laser
Giant magnetoresistance in granular Ag–Co films irradiated by excimer laser, 15

Field effect
Electric field effects on absorption and fluorescence spectra of pyrene doped in a PMMA polymer film, 239
Film morphology
The morphology and structure of sol–gel derived zirconia films on stainless steel, 196
Fluorescence
Electric field effects on absorption and fluorescence spectra of pyrene doped in a PMMA polymer film, 239
Preferred formation of the H-aggregate of thiacarbocyanine dye having meso-amino group in chitosan films, 267
Vacuum-deposited films of liquid crystal molecule of 4-dodecyloxy-4′-cyanobiphenyl: Their electronic spectra and molecular aggregate structures, 277
Fluorinated DLC
Production and wetting properties of fluorinated diamond-like carbon coatings, 107
Fourier transform infrared spectroscopy (FTIR)
Direct observation of water incorporation in PECVD SiO_2 films by UV-Visible ellipsometry, 212
Friction
Tribological studies of chromium oxide films for magnetic recording applications, 67
FTIR
Deposition behavior of hexamethydisiloxane films based on the FTIR analysis of Si–O–Si and $Si–CH_3$ bonds, 157
Fullerene
Preparation and surface observation by scanning probe microscope of C_{60}-containing polyimide Langmuir–Blodgett film, 272

GaAs heterostructures
Investigation of dislocations and traps in MBE grown *p*-InGaAs/GaAs heterostructures, 7
Giant magnetoresistance
Giant magnetoresistance in granular Ag–Co films irradiated by excimer laser, 15
Giant magnetoristance (GMR)
Influence of annealing condition on giant magnetoresistance of FeCo–Cu granular films, 33
Gold
Hydrogen diffusion through palladium–gold alloy coatings electrodeposited on palladium substrate under permeable boundary condition, 183
Gold films
Nucleation and growth of pulsed laser deposited gold on sodium chloride (100), 119
Grain boundary
The deposition of diamond film with high thermal conductivity, 124
Granular Ag-Co films
Giant magnetoresistance in granular Ag–Co films irradiated by excimer laser, 15
Granular films
Influence of annealing condition on giant magnetoresistance of FeCo–Cu granular films, 33
Growth mechanism
Structural analysis of 2H–WS_2 thin films by X-ray and TEM investigation, 146
Influence of substrate properties on the growth of titanium films: Part II, 310

Hard coatings
Corrosion of sputtered W–Ni–N hard coatings in chloride media, 1
Heat treatment
Preparation and structure of annealed $CuInSe_2$ electrodeposited films, 101
Influence of substrate properties on the growth of titanium films: Part II, 310
Hexamethyldisiloxane films
Deposition behavior of hexamethydisiloxane films based on the FTIR analysis of Si–O–Si and $Si–CH_3$ bonds, 157
Hydrogen
Hydrogen diffusion through palladium–gold alloy coatings electrodeposited on palladium substrate under permeable boundary condition, 183
Concentration and thermal release of hydrogen in amorphous silicon carbide films prepared by rf sputtering, 207

Impurities
The deposition of diamond film with high thermal conductivity, 124
Interfaces
Application of high energy resolved X-ray emission spectroscopy for monitoring of silicide formation in $Co/SiO_2/Si$ system, 28
Magneto–optical studies of Fe/Zr wedge-shaped multilayer, 246
Photovoltage properties of semiconductor LB films on *n*-Si substrate in contact with metal electrode, 259
Ion bombardment
The effect of additional ion/plasma assistance in CN_x-film deposition based on a filtered cathodic arc, 151
Ion implantation
Enhancement of surface properties of 45# carbon steel using plasma immersion ion implantation, 190
Phase stepping microscopy for layer thickness measurement in silicon-on-insulator structures, 225
Ion plating
Effects of Ti interlayer on the microstructure of ion-plated TiN coatings on AISI 304 stainless steel, 138
Iron films
Structural properties and water adsorption behaviour of iron films grown on Cu(111), 44

Kerr effect
Magneto–optical studies of Fe/Zr wedge-shaped multilayer, 246

Langmuir–Blodgett films
Photo-polymerisation of thin films of compounds having terminal triple bonds, 23
Langmuir-Blodgett films
Structural and morphological studies on Langmuir-Blodgett films of pheophytine *a* by ultraviolet–visible and infrared spectroscopies and atomic force microscopy, 262
Langmuir–Blodgett films
Preparation and surface observation by scanning probe microscope of C_{60}-containing polyimide Langmuir–Blodgett film, 272
Langmuir-Blodgett films (LB films)
Photovoltage properties of semiconductor LB films on *n*-Si substrate in contact with metal electrode, 259
Laser ablation
Oriented $PbZr_xTi_{1-x}O_3$ thin films obtained at low substrate temperature by pulsed laser deposition, 171
Laser irradiation
Preparation of molybdenum nitrides by laser-promoted nitridation reaction, 62
Lattice
Investigation of dislocations and traps in MBE grown *p*-InGaAs/GaAs heterostructures, 7
Light-emitting diodes
Electrochemically prepared light-emitting diodes of poly(*para*-phenylene), 58

Magnetic heads
Tribological studies of chromium oxide films for magnetic recording applications, 67
Metallization
Chemical–mechanical polishing of copper in alkaline media, 177
Characteristics of chemical-vapor-deposited copper on the Cu-seeded TiN substrates, 218
Microstructural and microchemical film characterization
Application of high energy resolved X-ray emission spectroscopy for monitoring of silicide formation in $Co/SiO_2/Si$ system, 28
Molybdenum
Preparation of molybdenum nitrides by laser-promoted nitridation reaction, 62
Monolayers
MgO by Injection CVD, 251
Multilayers
Phase stepping microscopy for layer thickness measurement in silicon-on-insulator structures, 225
Magneto–optical studies of Fe/Zr wedge-shaped multilayer, 246
Preferred formation of the H-aggregate of thiacarbocyanine dye having meso-amino group in chitosan films, 267

Nano-particle-doped glasses
In-plane anisotropy of nano-particle-doped glasses fabricated by multi-source simultaneous oblique-deposition, 81
Nitride
Preparation of molybdenum nitrides by laser-promoted nitridation reaction, 62
Nitrides
The effect of additional ion/plasma assistance in CN_x-film deposition based on a filtered cathodic arc, 151

Oblique-deposition
In-plane anisotropy of nano-particle-doped glasses fabricated by multi-source simultaneous oblique-deposition, 81
Optical properties
The effect of thermal treatment on the structure, optical and electrical properties of amorphous titanium nitride thin films, 93
Effect of the substrate temperature on the properties of spray deposited Sb–Se thin films from non-aqueous medium, 114
Optical and photospectral properties of $CrSi_2$ A-type epitaxial films on Si(111), 230
Properties of sputtered thin films of vanadium–titanium oxide for use in electrochromic windows, 286
Optical spectroscopy
Electric field effects on absorption and fluorescence spectra of pyrene doped in a PMMA polymer film, 239
Preferred formation of the H-aggregate of thiacarbocyanine dye having meso-amino group in chitosan films, 267
Organometallic vapour deposition
MgO by Injection CVD, 251
Oxidation
Characterization of the oxidation rate of densified SiN thin films by Auger and infrared absorption spectroscopies, 38
Oxides
Characterisation by X-ray photoelectron spectroscopy of thin $Mn_xCo_{3-x}O_4(1 \geq x \geq 0)$ spinel films prepared by low-temperature spray pyrolysis, 51
Properties of sputtered thin films of vanadium–titanium oxide for use in electrochromic windows, 286
Oxygen
Kinetic studies of molecular oxygen reduction on $W_{0.013}Ru_{1.27}Se$ thin films chemically synthesized, 164

Palladium
Hydrogen diffusion through palladium–gold alloy coatings electrodeposited on palladium substrate under permeable boundary condition, 183
$PbTiO_3$ thin film
Effect of annealing on $PbTiO_3$ thin-film quality improvement, 304
Perovskite structure of thin films
Effect of annealing on $PbTiO_3$ thin-film quality improvement, 304
Pheophytine *a*
Structural and morphological studies on Langmuir-Blodgett films of pheophytine *a* by ultraviolet–visible and infrared spectroscopies and atomic force microscopy, 262
Photoconductivity
Optical and photospectral properties of $CrSi_2$ A-type epitaxial films on Si(111), 230
Photovoltage
Photovoltage properties of semiconductor LB films on *n*-Si substrate in contact with metal electrode, 259
Physical vapour deposition
Photo-polymerisation of thin films of compounds having terminal triple bonds, 23
Piezoelectric effect
Oriented $PbZr_xTi_{1-x}O_3$ thin films obtained at low substrate temperature by pulsed laser deposition, 171
Pitting
Corrosion of sputtered W–Ni–N hard coatings in chloride media, 1
Planarization
Chemical–mechanical polishing of copper in alkaline media, 177
Plasma immersion
Enhancement of surface properties of 45# carbon steel using plasma immersion ion implantation, 190
Plasma nitriding
Enhancement of surface properties of 45# carbon steel using plasma immersion ion implantation, 190
Plasma-polymerization
Deposition behavior of hexamethydisiloxane films based on the FTIR analysis of Si–O–Si and $Si–CH_3$ bonds, 157
Plasma processing and deposition
The effect of additional ion/plasma assistance in CN_x-film deposition based on a filtered cathodic arc, 151
Oriented $PbZr_xTi_{1-x}O_3$ thin films obtained at low substrate temperature by pulsed laser deposition, 171
Enhancement of surface properties of 45# carbon steel using plasma immersion ion implantation, 190

Polyimide
Preparation and surface observation by scanning probe microscope of C_{60}-containing polyimide Langmuir–Blodgett film, 272
Polymers
Photo-polymerisation of thin films of compounds having terminal triple bonds, 23
Electrochemically prepared light-emitting diodes of poly(*para*-phenylene), 58
Electric field effects on absorption and fluorescence spectra of pyrene doped in a PMMA polymer film, 239
Preferred formation of the H-aggregate of thiacarbocyanine dye having meso-amino group in chitosan films, 267
Pulsed laser deposition
Nucleation and growth of pulsed laser deposited gold on sodium chloride (100), 119

Resistivity
Effect of the substrate temperature on the properties of spray deposited Sb–Se thin films from non-aqueous medium, 114
WSi_X thin films for resistors, 299
Rutherford backscattering spectroscopy
Stoichiometric limitations of RF plasma deposited amorphous silicon–nitrogen alloys, 133

Semiconductors
Preparation and structure of annealed $CuInSe_2$ electrodeposited films, 101
Photovoltage properties of semiconductor LB films on *n*-Si substrate in contact with metal electrode, 259
Silicides
Optical and photospectral properties of $CrSi_2$ A-type epitaxial films on Si(111), 230
WSi_X thin films for resistors, 299
Silicon
Phase stepping microscopy for layer thickness measurement in silicon-on-insulator structures, 225
Silicon carbide
Concentration and thermal release of hydrogen in amorphous silicon carbide films prepared by rf sputtering, 207
Silicon nitride
Stoichiometric limitations of RF plasma deposited amorphous silicon–nitrogen alloys, 133
Silicon nitride thin films
Characterization of the oxidation rate of densified SiN thin films by Auger and infrared absorption spectroscopies, 38
Silicon oxide
Direct observation of water incorporation in PECVD SiO_2 films by UV-Visible ellipsometry, 212
Phase stepping microscopy for layer thickness measurement in silicon-on-insulator structures, 225
Sol–gel
The morphology and structure of sol–gel derived zirconia films on stainless steel, 196
Spectroscopy
Characterisation by X-ray photoelectron spectroscopy of thin $Mn_xCo_{3-x}O_4(1 \geq x \geq 0)$ spinel films prepared by low-temperature spray pyrolysis, 51
Sputtering
Corrosion of sputtered W–Ni–N hard coatings in chloride media, 1
Properties of sputtered thin films of vanadium–titanium oxide for use in electrochromic windows, 286
WSi_X thin films for resistors, 299
Steel
Effects of Ti interlayer on the microstructure of ion-plated TiN coatings on AISI 304 stainless steel, 138
Enhancement of surface properties of 45# carbon steel using plasma immersion ion implantation, 190

Stress
Stoichiometric limitations of RF plasma deposited amorphous silicon–nitrogen alloys, 133
Influence of substrate properties on the growth of titanium films: Part II, 310
Superconductivity
MgO by Injection CVD, 251
Surface composition
Characterisation by X-ray photoelectron spectroscopy of thin $Mn_xCo_{3-x}O_4(1 \geq x \geq 0)$ spinel films prepared by low-temperature spray pyrolysis, 51
Surface melting
Preparation of molybdenum nitrides by laser-promoted nitridation reaction, 62
Surface morphology
Vacuum-deposited films of liquid crystal molecule of 4-dodecyloxy-4′-cyanobiphenyl: Their electronic spectra and molecular aggregate structures, 277

Temperature-programmed desorption
Structural properties and water adsorption behaviour of iron films grown on Cu(111), 44
Thin films
Corrosion of sputtered W–Ni–N hard coatings in chloride media, 1
Titanium
Influence of substrate properties on the growth of titanium films: Part II, 310
Titanium nitride
The effect of thermal treatment on the structure, optical and electrical properties of amorphous titanium nitride thin films, 93
Effects of Ti interlayer on the microstructure of ion-plated TiN coatings on AISI 304 stainless steel, 138
Transmission electron microscopy (TEM)
Structural analysis of 2H–WS_2 thin films by X-ray and TEM investigation, 146
Transmission electron spectroscopy (TEM)
Effects of Ti interlayer on the microstructure of ion-plated TiN coatings on AISI 304 stainless steel, 138
Tungsten–nickel
Corrosion of sputtered W–Ni–N hard coatings in chloride media, 1
Tungsten oxide
Structural analysis of 2H–WS_2 thin films by X-ray and TEM investigation, 146

Ultraviolet–visible
Structural and morphological studies on Langmuir-Blodgett films of pheophytine *a* by ultraviolet–visible and infrared spectroscopies and atomic force microscopy, 262

Vapor deposition
Observations of an unusual modulated structure with double-periodicity in Fe–Al multilayers, 89

Water
Direct observation of water incorporation in PECVD SiO_2 films by UV-Visible ellipsometry, 212
Water adsorption
Structural properties and water adsorption behaviour of iron films grown on Cu(111), 44
Wear
Tribological studies of chromium oxide films for magnetic recording applications, 67

X-ray diffraction
Photo-polymerisation of thin films of compounds having terminal triple bonds, 23
Observations of an unusual modulated structure with double-periodicity in Fe–Al multilayers, 89

Preparation and structure of annealed $CuInSe_2$ electrodeposited films, 101
Effect of the substrate temperature on the properties of spray deposited Sb–Se thin films from non-aqueous medium, 114
Preparation and properties of conductive $LaNiO_3$ thin films by a thermal decomposition of water-based solutions, 128
Structural analysis of 2H–WS_2 thin films by X-ray and TEM investigation, 146
X-ray emission spectroscopy
Application of high energy resolved X-ray emission spectroscopy for monitoring of silicide formation in $Co/SiO_2/Si$ system, 28
X-ray photoelectron
Characterisation by X-ray photoelectron spectroscopy of thin $Mn_xCo_{3-x}O_4(1 \geq x \geq 0)$ spinel films prepared by low-temperature spray pyrolysis, 51
Zirconia films
The morphology and structure of sol–gel derived zirconia films on stainless steel, 196